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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/895,178	07/02/2001	Keizoh Kawaguchi	110006	8755	
25944	7590 02/13/2004		EXAM	INER	
OLIFF & BERRIDGE, PLC			DROESCH, 1	DROESCH, KRISTEN L	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
	,		3762	5	
			DATE MAILED: 02/13/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Applicant(s)			
		Application No.	Applicant(s)			
Office Action Summary		09/895,178	KAWAGUCHI, KEIZOH			
		Examiner	Art Unit			
		Kristen L Droesch	3762			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet wit	h the correspondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty vill apply and will expire SIX (6) MONT , cause the application to become ABA	oply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 1/6/0	<b>14</b> .				
•	•	action is non-final.				
3) 🗌						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 4-7 and 9-11 is/are pending in the appearance of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 4-7 and 9 is/are rejected.  Claim(s) 10 and 11 is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>06 January 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)□ ot drawing(s) be held in abeyan tion is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachmer	nt(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Infor	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		formal Patent Application (PTO-152)			

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#### DETAILED ACTION

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 4-7, and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Oka (2002/0035337).

With respect to claim 4, Oka shows a heart sound microphone (12), a smoothing device (66), a squaring device (68); and a start - point determining device (70, Para 0043), a pulse wave detecting device (28) which is adapted to be worn on the subject to detect the pulse wave which propagates along the artery of the subject, a pulse wave propagation velocity relating information obtaining device (72) (Fig. 1).

Regarding claims 5-6, Oka further shows the pulse wave propagation velocity relating information-obtaining device comprises a pulse wave propagation time determining device and a pulse wave propagation velocity-determining device (Para.0070).

With respect to claim 7, Oka further shows an output device (52).

Regarding claim 9, Oka shows the heart sound detecting apparatus further comprises a high pass filter (Para.0069).

The statements of intended use have been carefully considered but are not considered to impart any further structural limitations over the prior art.

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The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

## Allowable Subject Matter

3. Claims 10-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record fails to teach or suggest a system including a the heart sound detector, a smoothing device, a squaring device, a start point determining device, a pulse wave detecting device, and a pulse wave propagation velocity relating information obtaining device all in combination with the start-point determining device that determines the start point of the first heart sound I based on the squared amplitude being greater than the threshold value. Oka shows determining the timing of the aortic valve closure based on the second heart sound II based on a judgment that the squared amplitude is greater than a prescribed threshold value. The judging period is started based on the T-wave.

### Response to Arguments

4. Applicant's arguments with respect to claims 4-7, and 9 have been considered but are most in view of the new ground(s) of rejection. Applicant's removal "means" plus function language from the claims has rendered that functional language to be considered statements of intended use.

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#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristen L Droesch whose telephone number is 703-605-1185. The examiner can normally be reached on M-F, 10:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angie Sykes can be reached on 703-308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Kriste Droes

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kld

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